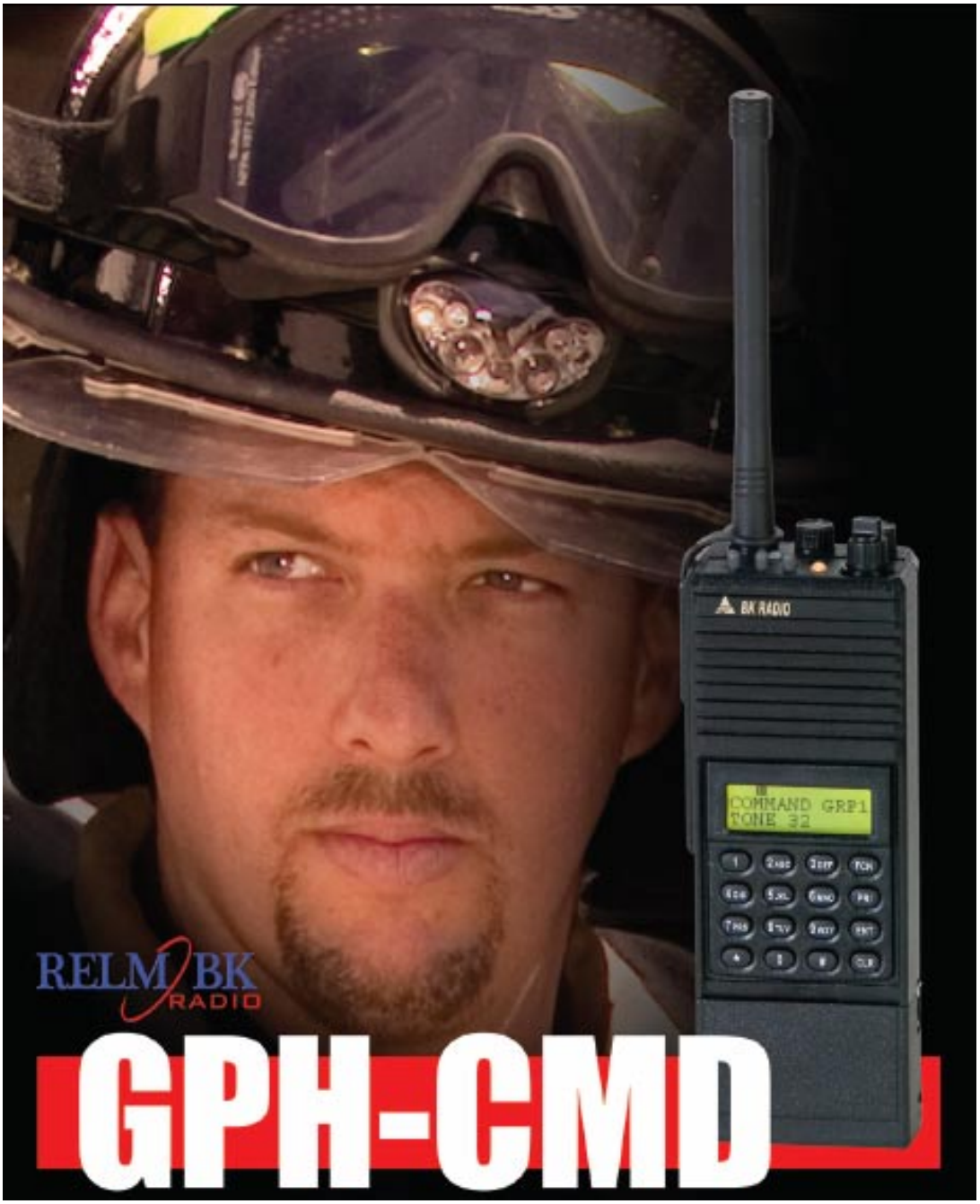
GPH-CMD Operation and Programming



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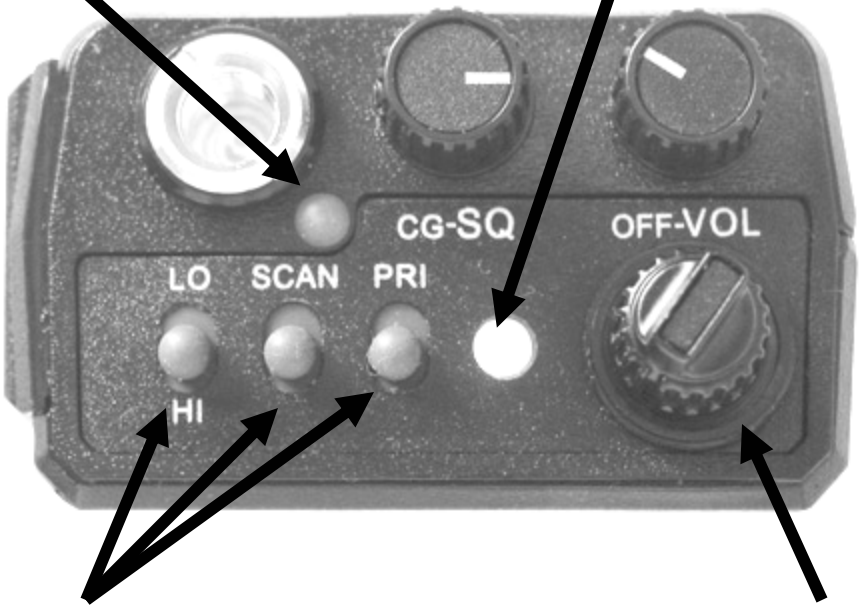
GPH-CMD Operation

Transmit Indicate

Busy Channel /Low Battery Indicate



Programmable Switches

Twenty channels per group.

No-stop knob. Radio Beeps at upper and lower channel

GPH-CMD Operation

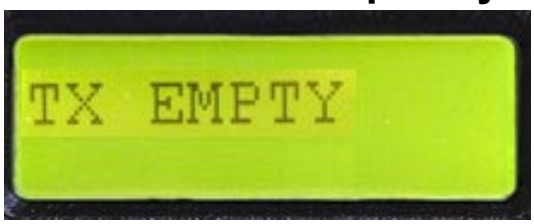
Keypad Lock

- **Press and Hold FCN Key to Lock or Unlock Keypad**
- **Radio beeps on key press when locked**

Empty Channels

- **If No Active Transmit or Receive Frequency is programmed the Radio will Display "DISABLED" and Emit an Alert Tone**

No Transmit Frequency



- **Receive Only Channels will Display "No CH' when attempting to Transmit**

Edit Scan List

- **With Scan Turned off press the ENT Key to Add the Selected Channel to the Scan List**
- **Press the CLR Key to Remove the Channel From the Scan List**

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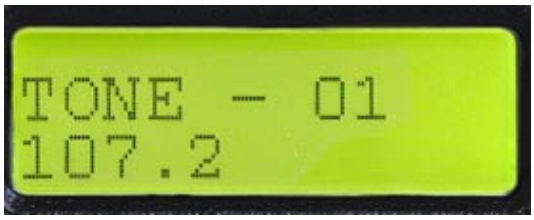
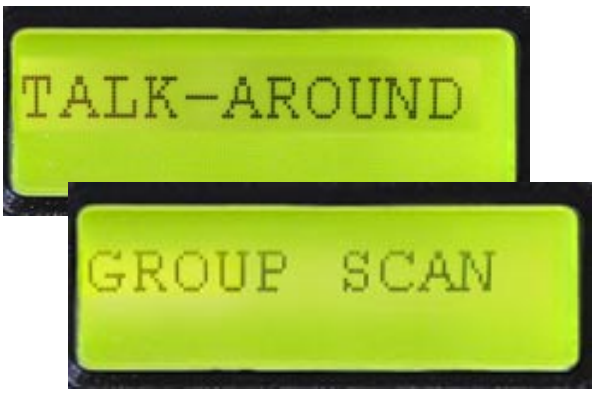
GPH-CMD Operation

Priority One Assignment



- **With Scan Turned off press the PRI Key to Set the Selected Channel as Priority One Channel**

Keypad Function Select



- **Press FCN Key to Scroll Programmed Functions**
- **Press PRI Key to Enable or Disable the Displayed Function**
- **Factory Defaults: Repeater Talk-Around and Multi-Group Scan**

View Group Label

- **Press and Hold the # Key to view the Current Groups Label**

Change Group

- **Press # Key**
- **Use Number Keys to Select Desired Group**
- **Enter New Group**

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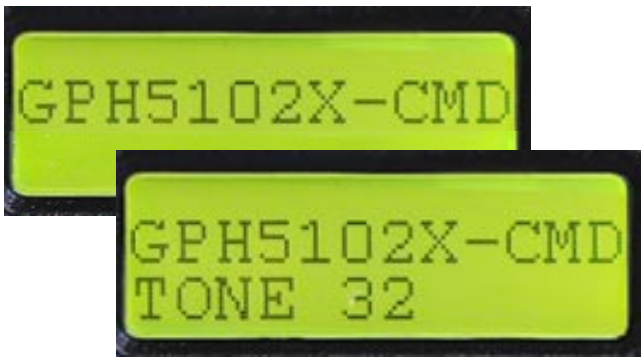
GPH-CMD Pick List Operation

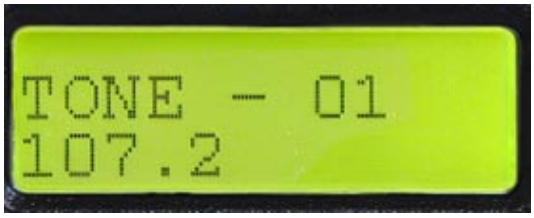
Pick List Tone Selection



•Use Number Keys to Select a Transmit Code Guard (1-32) from the Programmed Pick List

Note: Assigning a Transmit Code Guard to a Channel Overrides User Select Operation

View Tone Setting



• Press FCN Key

• Press 1 Key

•Use PRI Key to Scroll Through the List or Number Keys View Specific Tone

NOTE: This function may be disabled with the PC Programming software

Edit Global Tone List

• Press and Hold FCN Key to Enter Program Mode

• Lear the Current Tone

•Use Number Keys to Select Desired Tone

•Enter New Tone

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GPH-CMD Command Operation

Add Command Channel

- **Press the * Key to Add Current Channel to Command Group**
- **Channel is Assigned to Next Available Command Channel**

Selecting Command Group

- **Press # Key Twice to Select Command Group**
- **Press Enter to Set Group**

Remove Command Channel

- **While operating in the Command Group Press * Key to Remove the Current Channel from the Command Group**

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GPH-CMD Command Operation

Delete Command Group

- **A Long * Key Press Removes all Channels from Command Group**
- **While Holding the * Key the Radio will Emit an Alert Tone and Flash “Delete All”**
- **When Command Group is Empty a Lower Alert Tone will Sound**

GPH-CMD Programming

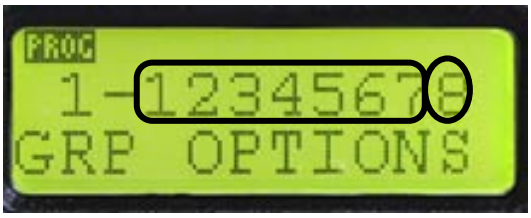
Enter Password

- Select Six Digit Password
- Press Enter Key
- Factory Default 000000

Group Parameters

- Use FCN Key to Scroll Through Settings

Group Options



- 1-7 Reserved
- 8- Add Group to Scan List

Group Label

- Clear Group Channel Label
- Use Number Keys to Select Desired Symbol
- Use FCN to shift left for next character
- Enter New Group Label

Programming Channel Settings

Channel Bandwidth

- **Press the # key to toggle between wideband and narrowband operation**

Receive Frequency

- **Press CLR to clear RX Frequency**
- **User the number keys to select desired frequency. (136 to 174 MHz, 2.5kHz increments)**
- **Press the ENT key to set frequency**

Receive Code Guard

- **Press CLR to clear Code Guard**
- **User number keys to select desired frequency. (67 to 255.9 Hz)**
- **Press ENT to set**
- **Press # key to enter Digital Coded Squelch**

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Programming Channel Settings

Transmit Frequency

- **Press CLR to clear RX Frequency**
- **User the number keys to select desired frequency. (136 to 174 MHz, 2.5kHz increments)**
- **Press the ENT key to set frequency**

Transmit Code Guard

- **Press CLR to clear Code Guard**
- **User number keys to select desired frequency. (67 to 255.9 Hz)**
- **Press ENT to set**
- **Press # key to enter Digital Coded Squelch**

Channel Label

- **Clear Channel Label**
- **Use Number Keys to Select Desired Symbol**
- **Use FCN to shift left for next character**
- **Enter New Label**

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Programming Global Parameters

Global Parameters

- **Use FCN Key to Scroll Through Settings**

Global Password

- **Press the CLR key**
- **Enter a new six-digit password**
- **Press the ENT key to store**

Programming Global Parameters

Global Options 1

When a function is enabled, the corresponding number in the display will flash.

When the function is disabled the number is steady.

To enable to disable a function press the number key corresponding to that function.

1. Battery Saver Inhibit
When function 1 is enabled (flashing) the battery saver is turned off. The battery saver should be turned off only for getting proper voltage readings during service or for systems requiring fast squelch attack time.

2. Reserved for Future Option

3. Transmit on Priority One
When function 3 is enabled (flashing) transmissions will occur on PR1 channel when operating in Single or Dual Priority Scan Mode

4. PRI Key Lockout
When function 4 is enabled (flashing) the PRI key is locked out in the Operating Mode. The user will not be able to change the designation of the Priority 1 Channel.

5. Scan List Lockout
When function 5 is enabled (flashing), the user will not be able to change the channels in the Scan List. When disabled (steady), the user can edit the Scan List using the ENT and CLR keys.

6. Backlight on Display Change
When function 6 is enabled (flashing), the display will light for the programmed duration on any display activity.

7. Backlight on Key Press
When function 7 is enabled (flashing), the display will light for the programmed duration on any key press.

8. Silent Mode
When function 8 is enabled (flashing), all radio alert tones are disabled

Programming Global Parameters

Global Options 2

When a function is enabled, the corresponding number in the display will flash.

When the function is disabled the number is steady.

To enable to disable a function press the number key corresponding to that function.

1. Reserved for Future Option

2&3. Busy Channel Operating Modes

Busy Channel Indicator - LED illuminates when a signal is received.
Busy Channel Lockout - LED illuminates and PTT disabled
Lockout Override - PTT can be activated by rotating Squelch knob off detent.

Operation	Function 2	Function 3
Indication	Disable (Steady)	Enable (Flashing)
Lockout	Enable (Flashing)	Enable (Flashing)
Override	Enable (Flashing)	Disable (Steady)

4&5. DTMF and ANI Settings

When function 4 is enabled (flashing) the ANI ID number is transmitted with each PTT

When function 5 is enabled (flashing) the keypad becomes active for manual DTMF

When functions 4 and 5 are both enabled (flashing) the ANI tone sequence is transmitted when the ENT key is pressed while transmitting.

6-8. Reserved for Future Option

Programming Global Parameters

ANI

- **Press the CLR key**
- **Enter a new DTMF ID Number (1-7 digits)**
- **Press the ENT key to store the new ID**

TX Timeout Timer

- **Advance Timeout Time by 15 Second Intervals with PRI Key (0-225 seconds)**
- **Press Enter Key to Set**

Scan Delay Timer

- **Advance Can Hold Time by .5 Second Intervals with PRI Key (0-7.5 seconds)**
- **Press Enter Key to Set**

Backlight Settings

- **Advance Backlight time by 1 second intervals with PRI key (Always On, Always Off or 1- 7.5 seconds)**
- **Press Enter Key to set**

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Programming Global Parameters

Priority 1 Settings

- **Use Number Keys to Select Desired Priority One Channel**
- **Enter New Channel**
- **Use Number Keys to Select Desired Priority One Group**
- **Enter New Group**

Priority 2 Settings

- **Use Number Keys to Select Desired Priority Two Channel**
- **Enter New Channel**
- **Use Number Keys to Select Desired Priority Two Group**
- **Enter New Group**

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GPH-CMD Cloning

Select Target

- **Enter the Cloning Mode by Pressing the * Key**
- **Select Target Radio Type with Long Press on * Key**
- **Target Radio Type Options GPHCMD or GPH**

Select Data

- **Select Data to be Cloned with Long Press on # Key**
- **Cloning Data Options:**
  Command Group,
  Group 1-25,
  User CG Pick List,
  Global Data (GRP 00)

Data	Valid Target
GROUP 00	GPHCMD only
GROUP 01 - 25	GPHCMD, GPH
CMND GRP	GPHCMD, GPH
PICK LIST	GPHCMD only

Send Information

- **Press FCN Key to Send Data**
- **Display Flashes While Cloning**
- **"Failure" Displayed if Data is Not Received by Slave Radio**

Note: Slave radios programmed to reject an incoming clone will not display any special indication.

GPH-CMD Cloning

What Clones?

Data that can be cloned to another GPH-CMD:
Group Data – Frequencies, Code Guards, Scan List, Label
Command Group Data* - Frequencies, Code Guards, Scan List
Global Data (GRP 00) – Priority Channels, Timers, etc.
UTXG Pick List – 32 Tone Pick List

Data that can be cloned to a standard GPH:
Group Data – Frequencies, Code Guards, Scan List, Label
Command Group Data* - Frequencies, Code Guards, Scan List

The Master's global data is converted to group data in the slave, and only the first 16 channels are transferred.

When receiving an incoming clone from a GPH radio, the GPH-CMD radio ignores group data other than the group label and the group scan list bit. The GPH-CMD's global data and channels 17-20 are not disturbed.

*When the Command Group is cloned the target group's label will be set to "CMND CLN".